

Listing Of All Claims And Status Identifiers

1-32 (withdrawn)

33. (previously amended) A device comprising:

- a) a substrate;
- b) a first dielectric layer positioned on the substrate;
- c) a second dielectric layer positioned on the first dielectric layer, wherein the first and second dielectric layers have dissimilar etching characteristics.
- d) a third dielectric layer positioned on the second dielectric layer;
- e) a fourth dielectric layer positioned on the third dielectric layer, wherein the first and fourth dielectric layers have dissimilar etching characteristics;
- f) a fifth dielectric layer positioned on the fourth dielectric layer, wherein the fifth dielectric layer has dissimilar etching characteristics with regard to the second and the fourth dielectric layers, and wherein the first and fifth dielectric layers have similar etching characteristics;
- g) a first region in the fifth dielectric layer defining a power line trench extending through the fifth, fourth and third dielectric layers;
- h) a second region in the fifth dielectric layer defining a signal line trench extending through the fifth dielectric layer; and
- i) a third region in the fourth dielectric layer underlying the signal line trench, defining a first via hole extending through the fourth, third, second and first dielectric layers, wherein the power line trench, the signal line trench and the first via hole are adapted for containing a triple damascene structure.

34. (withdrawn)

35. (previously added) The device of claim 33 wherein (1) the first, third and fifth dielectric layers comprise one or more dielectric materials selected from the group consisting of amorphous fluorinated carbon, organic spin-on materials, spin-on-glass, aero-gel, poly(arylene)ethers, fluorinated poly(arylene)ethers and divinyl siloxane benzo-cyclobutane and (2) the second and fourth dielectric layers comprise one or more dielectric materials selected from the group consisting of SiO₂ and fluorinated SiO₂.

36. (previously added) The device of claim 33 wherein (1) the first, third and fifth dielectric layers comprise one or more dielectric materials selected from the group consisting of SiO₂ and fluorinated SiO₂ and (2) the second and fourth dielectric layers comprise one or more dielectric materials selected from the group consisting of amorphous fluorinated carbon, organic spin-on materials, spin-on-glass, aero-gel, poly(arylene)ethers, fluorinated poly(arylene)ethers and divinyl siloxane benzocyclobutane.

37. (previously added) The device of claim 33 additionally comprising a conductive material positioned in the power line trench, the signal line trench and the first via hole, thereby forming a power line, a signal line and a first via plug.

38. (previously added) The device of claim 37 wherein the power line comprises a substantially greater thickness than the signal line.

39. (previously added) The device of claim 33 additionally comprising a fourth region in the second dielectric layer underlying the power line trench, defining a second via hole extending through the second and first dielectric layers, wherein the power line trench, the signal trench, the first via hole and the second via hole are adapted for containing a quadruple damascene structure.

40. (previously added) The device of claim 39 additionally comprising a conductive material positioned in the power line trench, the signal trench, the first via hole and the second via hole.

41. (previously added) A device comprising:

- a) a substrate;
- b) a cap layer positioned on the substrate;
- c) a first dielectric layer positioned on the cap layer;
- d) a second dielectric layer positioned on the first dielectric layer, wherein the first and second dielectric layers have dissimilar etching characteristics;
- e) a third dielectric layer positioned on the second dielectric layer;
- f) a fourth dielectric layer positioned on the third dielectric layer, wherein (1) the first and fourth dielectric layers have dissimilar etching characteristics and (2) the

cap layer and the second and fourth dielectric layers have similar etching characteristics;

- g) a fifth dielectric layer positioned on the fourth dielectric layer, wherein (1) the fifth dielectric layer has dissimilar etching characteristics with regard to the cap layer and the second and fourth dielectric layers and (2) the first and fifth dielectric layers have similar etching characteristics;
- h) a first region in the fifth dielectric layer defining a power line trench extending through the fifth, fourth, third and second dielectric layers;
- i) a second region in the fifth dielectric layer defining a signal line trench extending through the fifth and fourth dielectric layers; and
- j) a third region in the third dielectric layer and underlying the signal trench line, defining a first via hole extending from the third dielectric layer to the substrate, wherein the power line trench, the signal line trench and the first via hole are adapted for containing a triple damascene structure.

42. (previously added) The device of claim 41 additionally comprising a conductive material positioned in the power line trench, the signal line trench and the first via hole, thereby forming a power line, a signal line and a first via plug.

43. (previously added) The device of claim 42 wherein the power line comprises a substantially greater thickness than the signal line.

44. (previously added) The device of claim 41 additionally comprising a fourth region in the first dielectric layer and underlying the power line trench, defining a second via hole extending from the power line trench to the substrate, wherein the power line trench, the signal line trench, the first via hole and the second via hole are adapted for containing a quadruple damascene structure.

45. (previously added) The device of claim 44 additionally comprising a conductive material positioned in the power line trench, the signal line trench, the first via hole and the second via hole.

46. (previously added) A device comprising:

- a) a substrate;
- b) a first dielectric layer positioned on the substrate;

- c) a second dielectric layer positioned on the first dielectric layer, wherein the first and second dielectric layers have dissimilar etching characteristics;
- d) a third dielectric layer positioned on the second dielectric layer, wherein (1) the second and third dielectric layers have dissimilar etching characteristics and (2) the first and third dielectric layers have similar etching characteristics;
- e) a first region in the third dielectric layer defining a power line trench extending through the third and second dielectric layers;
- f) a second region in the third dielectric layer defining a signal line trench extending to the first dielectric layer; and
- g) a third region in the first dielectric layer and underlying the signal trench, defining a first via hole extending from the signal line trench to the substrate.

47. (previously added) The device of claim 46 additionally comprising a conductive material positioned in the power line trench, the signal line trench and the first via hole, thereby forming a power line, a signal line and a first via plug.

48. (previously added) The device of claim 47 wherein the power line comprises a substantially greater thickness than the signal line.

49. (previously added) The device of claim 46 additionally comprising a fourth region in the first dielectric layer and underlying the power line trench defining a via hole extending from the power line trench to the substrate.

50. (previously added) The device of claim 49 additionally comprising a conductive material positioned in the power line trench, the signal line trench, the first via hole and the second via hole.

51. (previously added) A device comprising:

- a) a substrate;
- b) a first dielectric layer positioned on the substrate;
- c) a second dielectric layer positioned on the first dielectric layer;
- d) a third dielectric layer positioned on the second dielectric layer, wherein the first, second and third dielectric layers have similar etching characteristics;

- e) a first region in the third dielectric layer defining a power line trench extending through the third and second dielectric layers;
- f) a second region in the third dielectric layer defining a signal line trench extending through the third dielectric layer; and
- g) a third region in the second dielectric layer and underlying the signal line trench, defining a first via hole extending from the signal line trench to the substrate.

52. (previously added) The device of claim 51 additionally comprising a conductive material positioned in the power line trench, the signal line trench and the first via hole, thereby forming a power line, a signal line and a first via plug.

53. (previously added) The device of claim 52 wherein the power line comprises a substantially greater thickness than the signal line.

54. (previously added) The device of claim 51 additionally comprising a fourth region in the first dielectric layer and underlying the power line trench, defining a second via hole extending from the power line trench to the substrate.

55. (previously added) The device of claim 54 additionally comprising a conductive material positioned in the power line trench, the signal line trench, the first via hole and the second via hole.

56-59 (withdrawn)